Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: Slohcin, Inc.
Well Name/Number: Halter #5-5B
Location: NW NE Section 21 T35N R2W
County: Toole MT; Field (or Wildcat) Kevin Sunburst
Air Quality
(possible concerns)
Long drilling time: No, 3 to 4 days drilling time.
Unusually deep drilling (high horsepower rig): No, small single derrick drilling rig, about
500 HP (Estimated) to drill to 1620' TD.
Possible H2S gas production: Slight H2S anticipated (Very low PPM H2S).
In/near Class I air quality area: No not in a Class I air quality area.
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required
<u>under 75-2-211.</u>
Mitigation:
_X Air quality permit (AQB review)
Gas plants/pipelines available for sour gas
Special equipment/procedures requirements
Other:
Comments: No special concerns – using small rig to drill to 1620' TD.
Materia Occality
Water Quality
(possible concerns)
Salt/oil based mud: No, freshwater, freshwater mud system, air, air mist. High water table: No high water table anticipated.
Surface drainage leads to live water: No, closest drainages are unnamed ephemeral
drainages, about, 1/8 of a mile to the south from this location.
Water well contamination: No, closest water wells are over 1 mile from this location.
Surface hole in this well will be drilled to 300' with freshwater and/or air. Steel surface
casing will be run and cemented to surface to protect ground water if any.
Porous/permeable soils: No, sandy silty bentonitic soils.
Class I stream drainage: No Class I stream drainages.
Mitigation:
Lined reserve pit
_X_Adequate surface casing
Berms/dykes, re-routed drainage
Closed mud system
Off-site disposal of solids/liquids (in approved facility)
Other:
Comments: 300' of surface casing cemented to surface adequate to protect
freshwater zones. Also, air/air mist and/or fresh water mud systems to be used.
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Soils/Vegetation/Land Use

(possible concerns)
Steam crossings: No, stream crossings anticipated. Crossing only ephemeral drainages.

High erosion potential: No, small cut, up to 7.6' and small fill, up to 8.5', required. Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed. Unusually large wellsite: No, 200'X200' location size required. Damage to improvements: Slight, surface use is a grassland. Conflict with existing land use/values: Slight Mitigation Avoid improvements (topographic tolerance) Exception location requested X Stockpile topsoil Stream Crossing Permit (other agency review) X Reclaim unused part of wellsite if productive Special construction methods to enhance reclamation Other Comments: Access will be over existing county gravel road, west frontage road and existing well access roads. No new access will be built into this location. Well access road run through this location. Cuttings will be buried in and unlined earthen pit. Drilling fluids if used will be allowed to dry in the pit. Pits will be backfilled after drying. No special concerns.
Health Hazards/Noise
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(possible concerns) Proximity to public facilities/residences: Closest residence is about 3/4 of a mile to the southeast from this location. Possibility of H2S: Slight H2S anticipated. Size of rig/length of drilling time: Small drilling rig/short 3 to 4 days drilling time. Mitigation: _X Proper BOP equipment _ Topographic sound barriers _ H2S contingency and/or evacuation plan _ Special equipment/procedures requirements _ Other: _ Comments: Adequate surface casing and operational BOP should mitigate any
problems. No concerns
Wildlife/recreation
(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified.
Proximity to recreation sites: None identified.
Creation of new access to wildlife habitat: No
Conflict with game range/refuge management: No
Threatened or endangered Species: Species identified as threatened or endangered
are the Black-footed Ferret and Mountain Plover. Candidate species are the Sprague's
Pipit. Natural Heritage Tracker website lists the Ferruginous Hawk, Chestnut-collared
Longspur, McCown's Longspur and Brewer's Sparrow as a species of concern.
Mitigation:
Avoidance (topographic tolerance/exception)
Other agency review (DFWP, federal agencies, DSL)Screening/fencing of pits, drillsite

Other:
Comments: Private grassland surface. All birds listed are migratory and will
have left this area for the winter. No concerns.
Historical/Cultural/Paleontological
(possible concerns) Proximity to known sites: None identified
Mitigation
avoidance (topographic tolerance, location exception)
other agency review (SHPO, DSL, federal agencies)
Other:
Comments: Private grassland surface. No concerns.
Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation
Comments: No concerns.
Remarks or Special Concerns for this site
W. H
Well is a 1620' Madison Formation test.
Summary: Evaluation of Impacts and Cumulative effects
No long term impacts expected. Some short term impacts will occur, but can be
mitigated.
I conclude that the approval of the subject Notice of Intent to Drill (does/does not)
constitute a major action of state government significantly affecting the quality of the
human environment, and (does/ <u>does not</u>) require the preparation of an environmental
impact statement.
Prepared by (BOGC):_/s/ Steven Sasaki
(title:) Chief Field Inspector
Date: December 17, 2010
<u> </u>
Other Persons Contacted:
Martine Borne (Mineral Only)
Montana Bureau of Mines and Geology, GWIC website
(Name and Agency) _Toole County water wells
(subject discussed)
_December 17, 2010
(date)

US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES
MONTANA COUNTIES, Toole County
(subject discussed)
_ <u>December 17, 2010</u>
(date)
Montana Natural Heritage Program Website (FWP)
(Name and Agency)
Heritage State Rank= S1, S2, S3, Section T35N R2W
(subject discussed)
(date)
If location was inspected before permit approval:
Inspection date:
Inspector:
Others present during inspection: